

FIG. 2

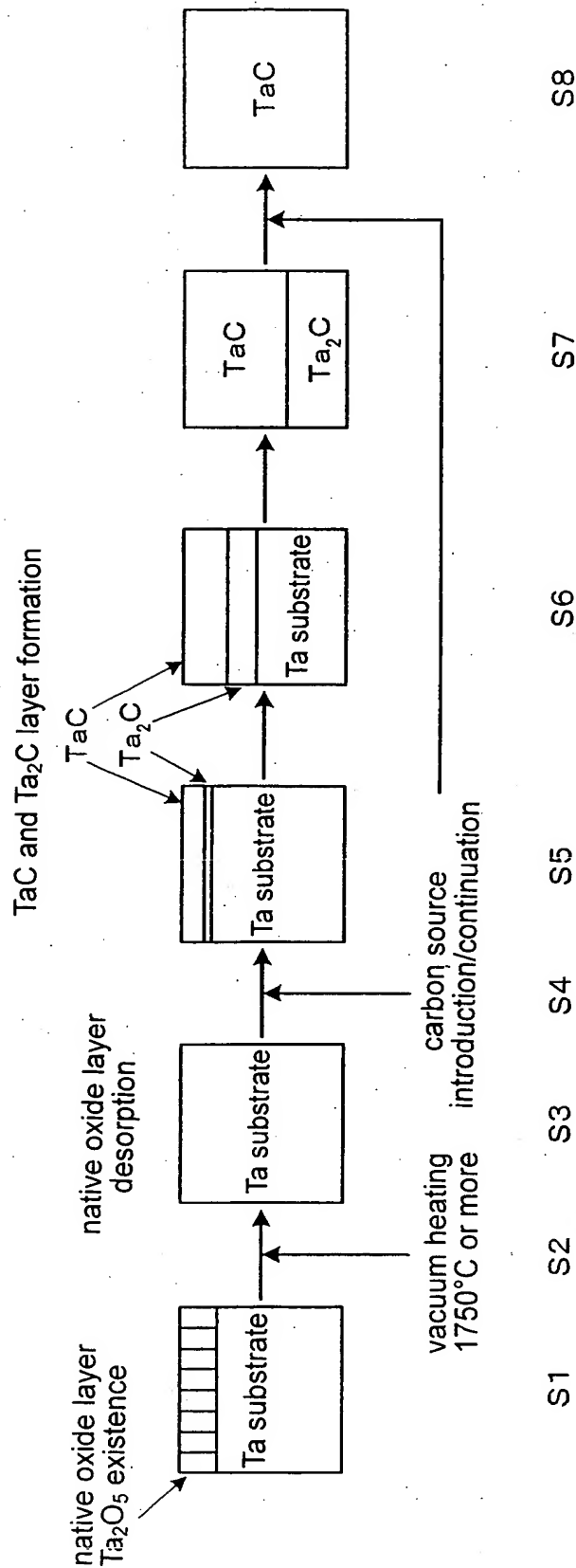


FIG. 3

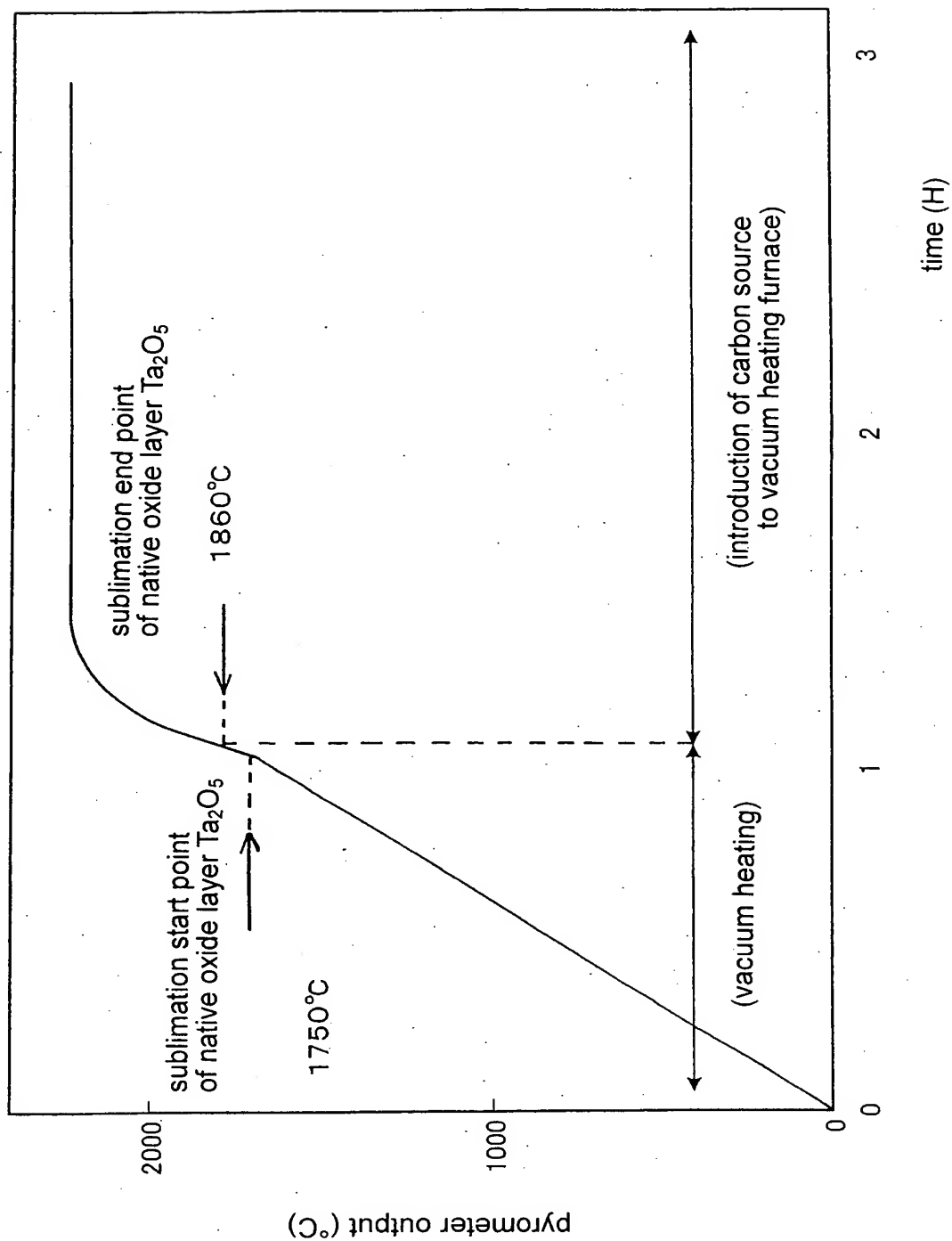


FIG. 4

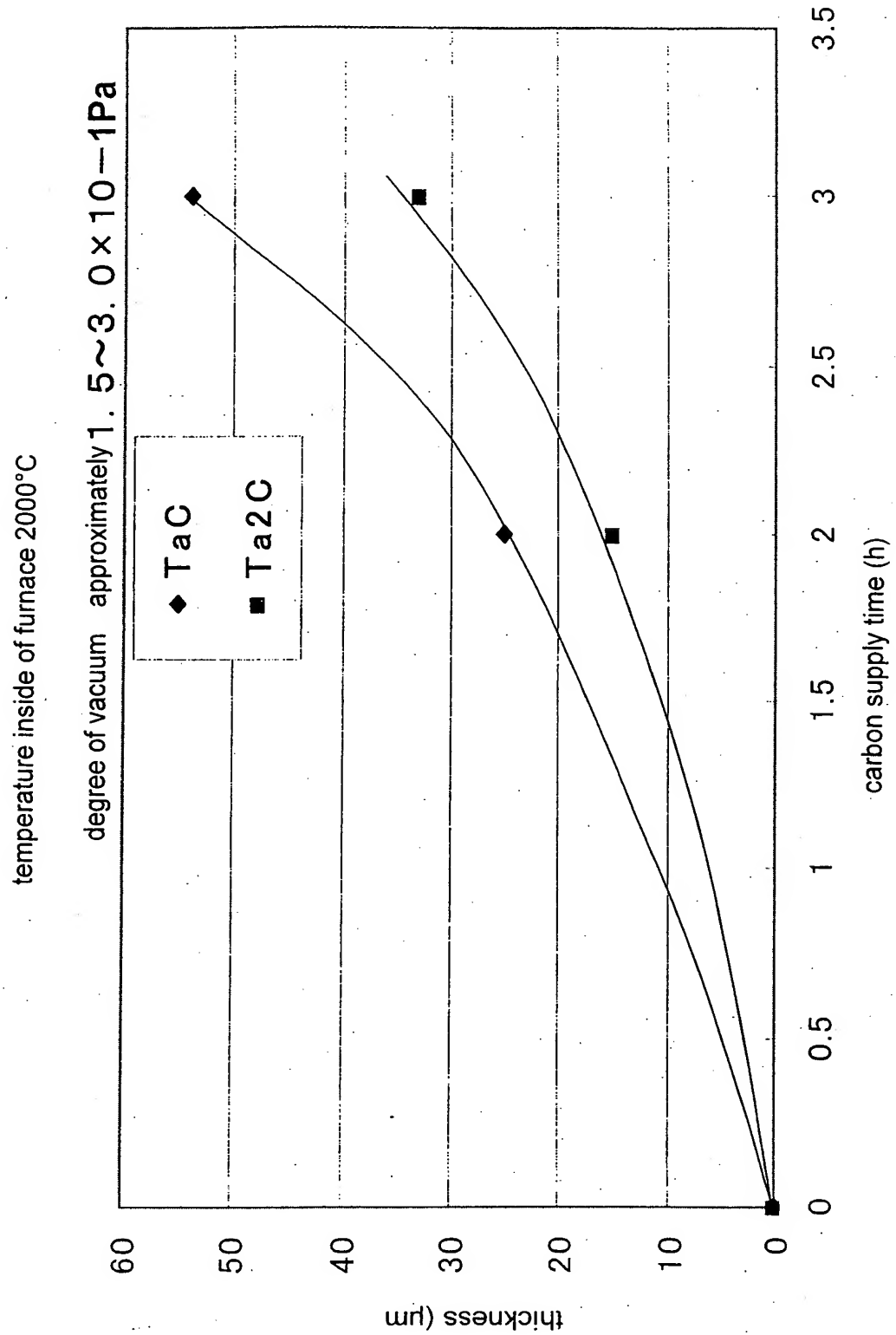


FIG. 5

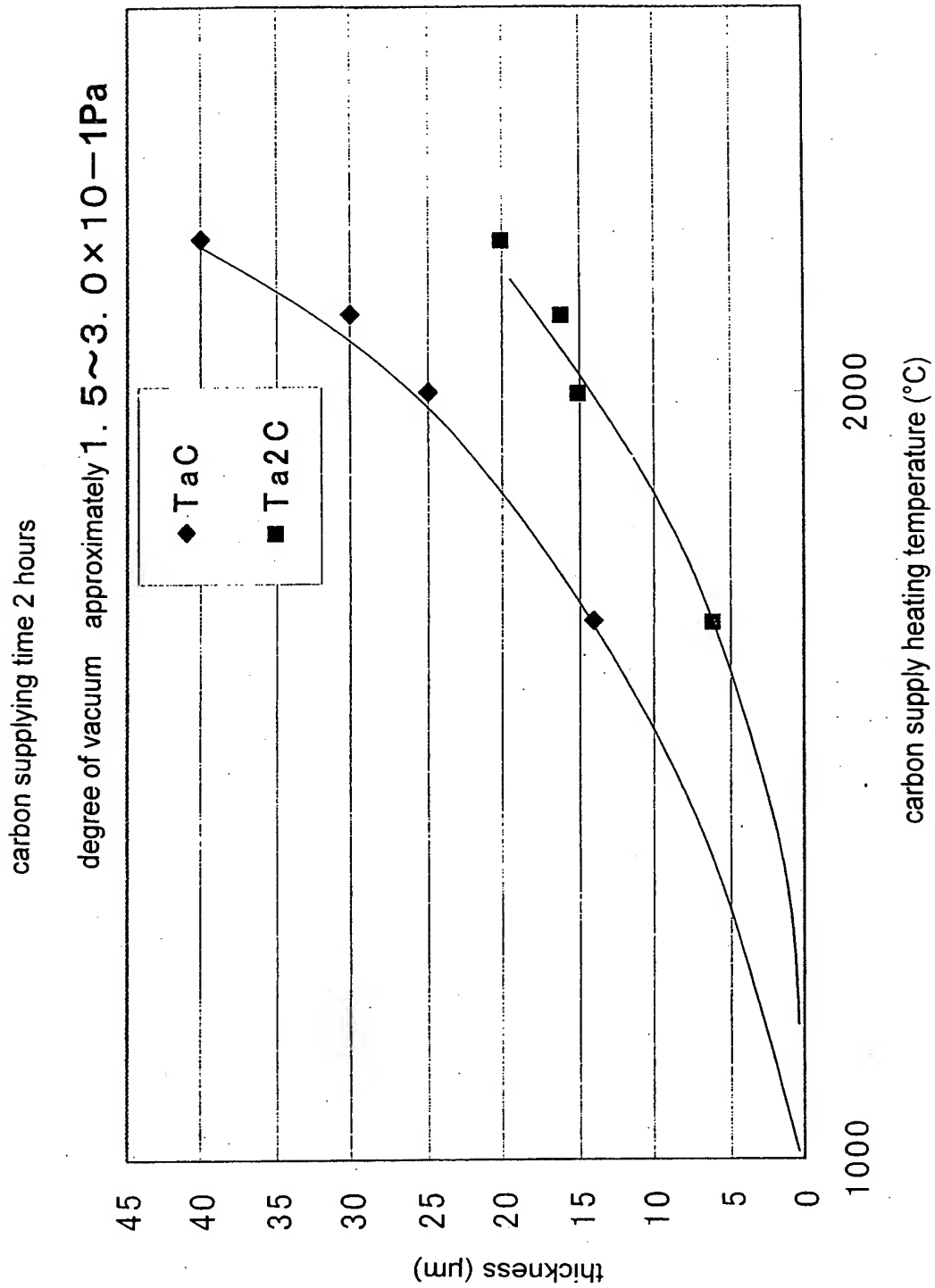


FIG. 6

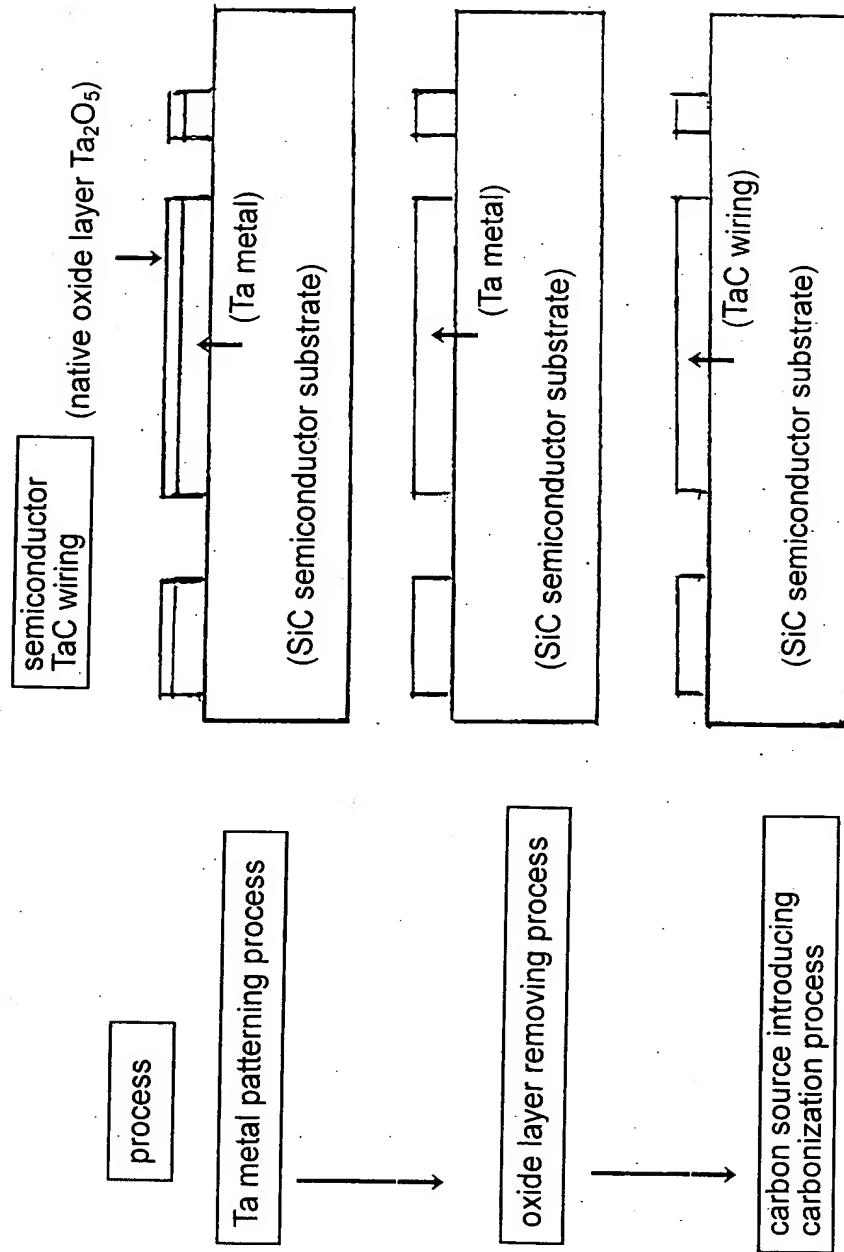
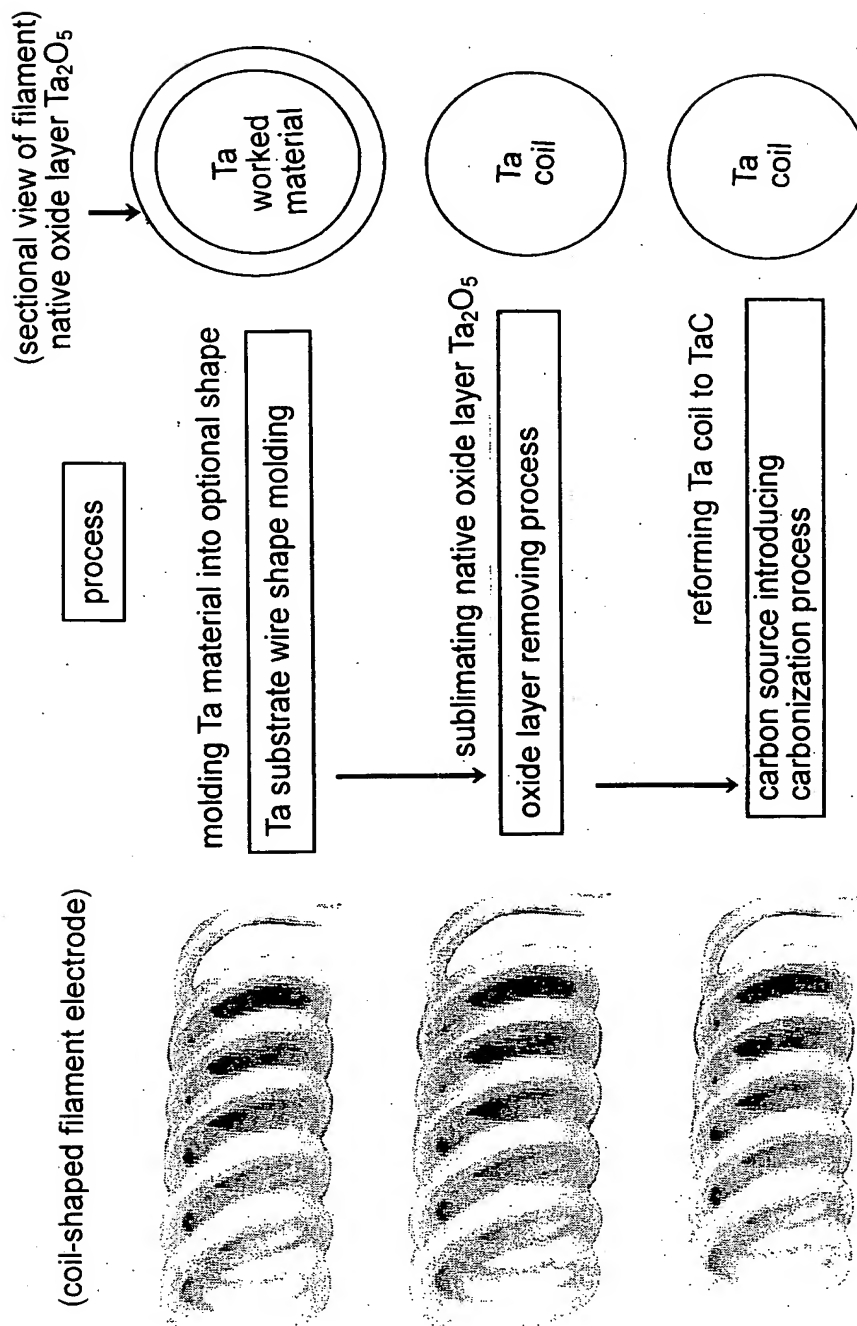


FIG. 7



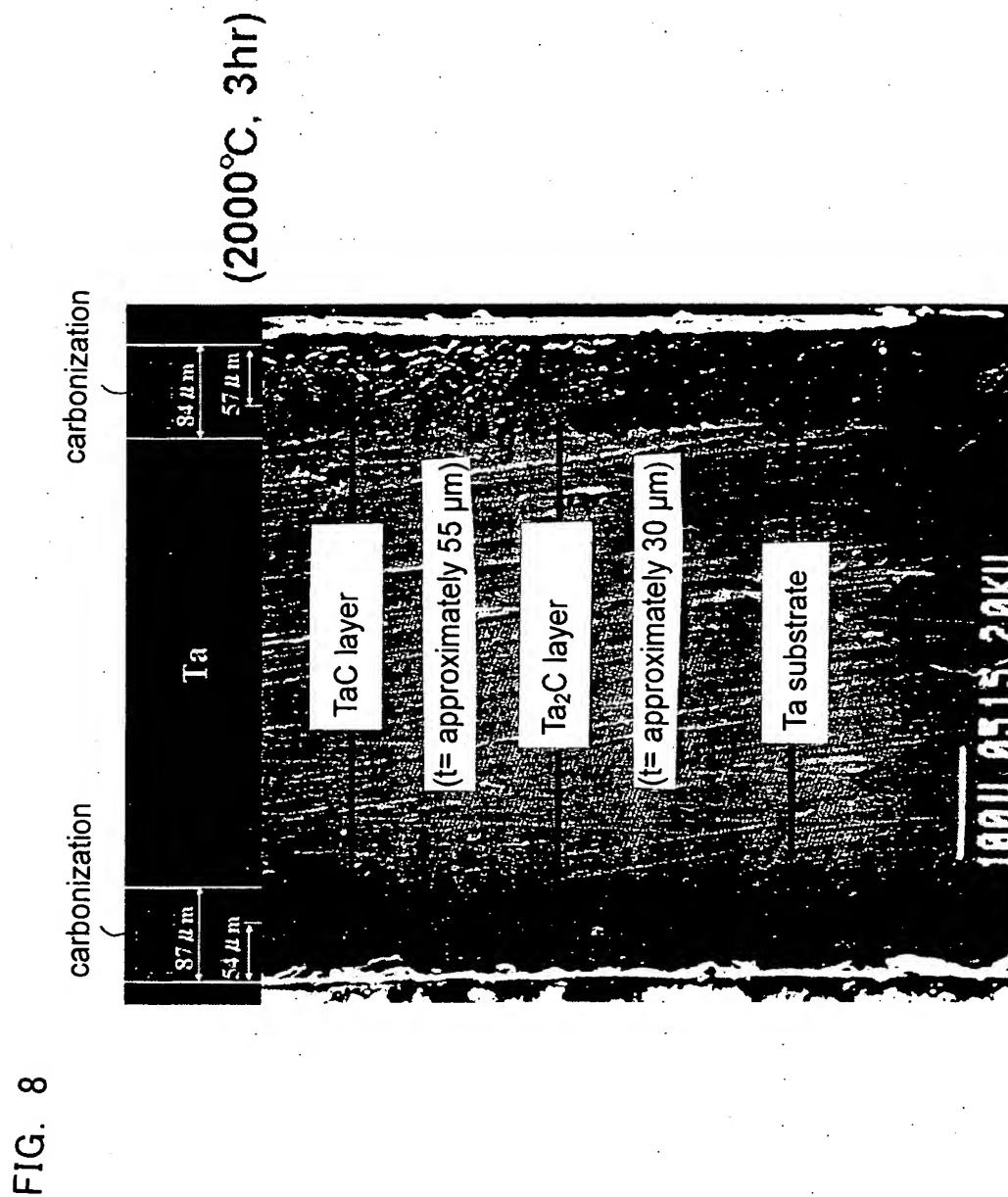
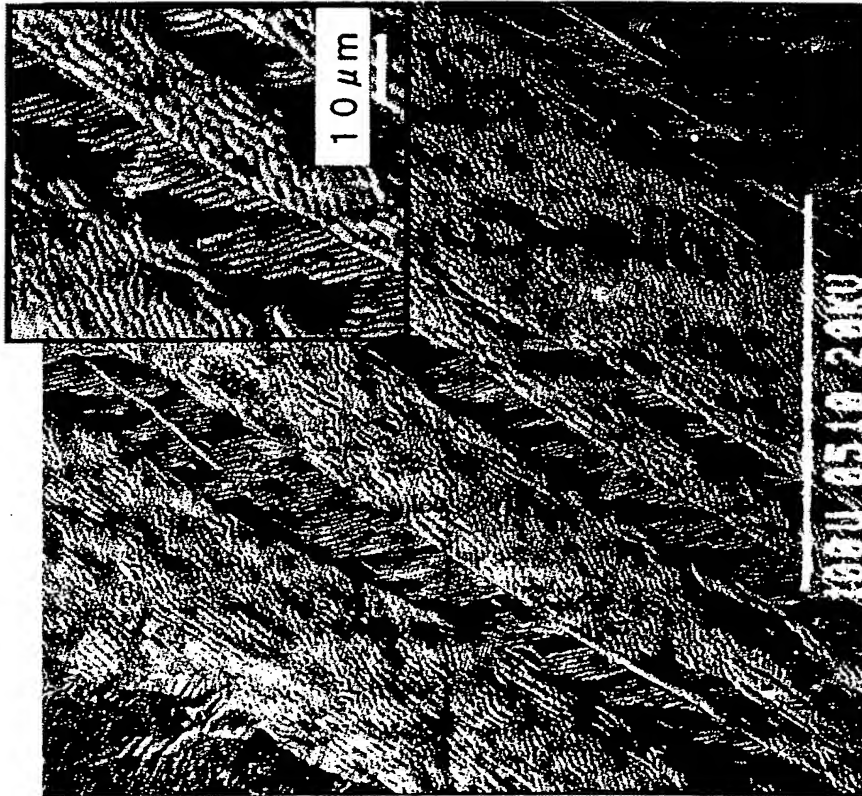




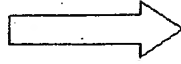
FIG. 9

TaC surface hardness 2200Hv (conventional figure 1550)



(2000°C, 3hr)

Fibrous crystals are folded.



The fibrous crystals grow in the same direction in the same layer, and there is a layer in which the other fibrous crystals grow in the direction different from the growing direction. One crystal structure is produced by the overlapping of the crystals.

FIG. 10

Ta-C Phase Diagram

